Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-05-26** **Date: 02-11-18**
Customer	:	Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura
Agency	:	Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/156/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-12-05-26 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	31-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	_
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

AE(WF)

Assistant Executive Engineer,
Kodigehalli Sub Divisi...
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-05-26** **Date: 28-11-18**
Customer	:	Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura
Agency	:	Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/156/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-12-05-26 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	31-10-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Asst Ply. N.D
AE(Ply)

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-05-26** **Date: 02-11-18**
Customer	:	Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura
Agency	:	Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/156/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-12-05-26 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-05-26** **Date: 02-11-18**

Sample ID No : 2018-12-05-26 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.9**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.3**	
3	Specific Gravity	**2.64**	_
4	Bulk Density(Loose) (Kg/l)	**1.41**	_
5	Bulk Density(Compacted) (Kg/l)	**1.47**	_
6	Water Absorption(%)	**0.23**	_

Note:
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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-05-26** **Date: 02-11-18**
Customer	:	Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura
Agency	:	Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/156/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-12-05-26 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-05-26** **Date: 02-11-18**

Sample ID No : 2018-12-05-26 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.43	_
5	Bulk Density(Compacted) (Kg/l)	1.49	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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AE(WS)

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-05-26** **Date: 02-11-18**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura

Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-10-18

Sample ID No : 2018-12-05-26 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 30-10-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-05-26** **Date: 02-11-18**

Sample ID No : 2018-12-05-26 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-12-05-26** **Date: 02-11-18**
Customer	:	Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura
Agency	:	Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/156/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-12-05-26 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	31-10-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	514	654	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	526	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	546	666	20.0%	Satisfactory	Satisfactory

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Technical Manager

CIVIL PRO Sig..... Date..... BANGALORE

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-12-05-26** **Date: 04-11-18**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura

Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-10-18

Sample ID No : 2018-12-05-26 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 31/10/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Asstt.Ly.N.D
AE(WF)

Assistant Executive Engineer,
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Yelahanka Zone, B.B.M.P.
Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-05-26** **Date: 22/11/2018**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura

Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-11-2018

Sample ID No : 2018-12-05-26 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/11/2018	22/11/2018	151.13 X 150.45 X 151.34	22738	**8.522**	285.6	12.6	12.5
2	PCC	M15	15/11/2018	22/11/2018	150.46 X 149.76 X 149.10	22533	**8.721**	281.5	12.5	
3	PCC	M15	15/11/2018	22/11/2018	149.26 X 150.80 X 149.03	22508	**8.972**	277.0	12.3	

Note:

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Actually N.D AE(ET)

Assistant Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-05-26** **Date: 13/12/2018**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura

Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-11-2018

Sample ID No : 2018-12-05-26 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/11/2018	13/12/2018	149.64 X 150.73 X 150.43	22555	**8.890**	404.4	17.9	17.4
2	PCC	M15	15/11/2018	13/12/2018	151.47 X 150.83 X 151.35	22846	**9.003**	389.7	17.1	
3	PCC	M15	15/11/2018	13/12/2018	151.63 X 151.41 X 151.33	22958	**8.442**	393.4	17.1	

Note:

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Assistant Executive Engineer,
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-05-26** **Date: 22/11/2018**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura

Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-11-2018

Sample ID No : 2018-12-05-26 /03

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/11/2018	22/11/2018	151.79 X 150.78 X 151.08	22887	**8.827**	289.7	12.7	12.5
2	PCC	M15	15/11/2018	22/11/2018	150.58 X 149.98 X 150.81	22583	**8.827**	287.1	12.7	
3	PCC	M15	15/11/2018	22/11/2018	149.10 X 150.46 X 150.56	22434	**8.563**	274.4	12.2	

Note:

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FOR CIVIL Pro.

Mgt Lg. N.D
AE(L)

Assistant Executive Engineer,
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

R RUDRAPRASAD
Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-05-26** **Date: 13/12/2018**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura

Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-11-2018

Sample ID No : 2018-12-05-26 4

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/11/2018	13/12/2018	150.13 X 149.81 X 150.91	22491	**8.846**	404.1	18.0	17.7
2	PCC	M15	15/11/2018	13/12/2018	150.55 X 151.40 X 150.75	22794	**8.579**	409.6	18.0	
3	PCC	M15	15/11/2018	13/12/2018	149.37 X 150.12 X 149.03	22423	**8.851**	387.0	17.3	

Note:

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FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

Asstt Ly. N.D
DE(Lot)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, BBMP
Bangalore.

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-05-26** **Date: 22/11/2018**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura

Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-11-2018

Sample ID No : 2018-12-05-26 /05

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/11/2018	22/11/2018	150.15 X 151.11 X 149.77	22690	**8.519**	288.9	12.7	12.6
2	PCC	M15	15/11/2018	22/11/2018	150.70 X 150.00 X 150.76	22606	**9.000**	286.3	12.7	
3	PCC	M15	15/11/2018	22/11/2018	150.18 X 151.95 X 151.12	22820	**8.842**	280.5	12.3	

Note:

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FOR CIVIL Pro.

AE(Lab)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

CIVIL PRO Sig..... Date..... BANGALORE

R RUDRAPRASAD
Authorized Signatory
Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-05-26** **Date: 13/12/2018**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura

Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-11-2018

Sample ID No : 2018-12-05-26 /6

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/11/2018	13/12/2018	150.17 X 150.15 X 150.95	22548	**8.308**	399.7	17.7	17.7
2	PCC	M15	15/11/2018	13/12/2018	151.93 X 149.39 X 150.57	22697	**8.146**	408.1	18.0	
3	PCC	M15	15/11/2018	13/12/2018	151.78 X 151.09 X 150.33	22933	**8.101**	400.1	17.4	

Note:

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CIVIL Pro Sig..... Date..... BANGALORE

R RUDRAPRASAD
Authorized Signatory
Technical Manager

Asstt.Ly.N.D AE(Ltr)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-05-26** **Date: 16/11/2018**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura

Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-11-2018

Sample ID No : 2018-12-05-26 /01

Customer ID : DRAIN CONCRETE

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	DRAIN CONCRETE	M20	09/11/2018	16/11/2018	149.72 X 151.50 X 150.16	22683	**8.835**	411.5	18.1	18.4
2	DRAIN CONCRETE	M20	09/11/2018	16/11/2018	150.89 X 150.22 X 149.73	22666	**8.539**	425.0	18.7	
3	DRAIN CONCRETE	M20	09/11/2018	16/11/2018	149.77 X 151.10 X 149.60	22631	**9.055**	413.6	18.3	

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, BBMP,
Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-05-26** **Date: 07/12/2018**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura

Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-11-2018

Sample ID No : 2018-12-05-26 /2

Customer ID : DRAIN CONCRETE

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	DRAIN CONCRETE	M20	09/11/2018	07/12/2018	150.02 X 150.64 X 150.09	22600	**9.052**	533.7	23.6	23.1
2	DRAIN CONCRETE	M20	09/11/2018	07/12/2018	149.71 X 151.86 X 150.06	22735	**9.072**	506.8	22.3	
3	DRAIN CONCRETE	M20	09/11/2018	07/12/2018	150.29 X 149.09 X 149.08	22407	**8.110**	527.2	23.5	

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Asst Engg. N.D
AE(Ltg)

Assistant Executive Engineer.
Kodigehalli Sub Division,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-05-26** **Date: 16/11/2018**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura

Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-11-2018

Sample ID No : 2018-12-05-26 /03

Customer ID : DRAIN CONCRETE

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	DRAIN CONCRETE	M20	09/11/2018	16/11/2018	149.01 X 149.47 X 150.31	22273	**8.217**	411.8	18.5	18.6
2	DRAIN CONCRETE	M20	09/11/2018	16/11/2018	149.05 X 149.84 X 151.57	22335	**9.077**	414.2	18.5	
3	DRAIN CONCRETE	M20	09/11/2018	16/11/2018	151.48 X 150.72 X 149.69	22831	**8.740**	429.9	18.8	

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-05-26** **Date: 07/12/2018**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura

Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-11-2018

Sample ID No : 2018-12-05-26 /04

Customer ID : DRAIN CONCRETE

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	DRAIN CONCRETE	M20	09/11/2018	07/12/2018	149.23 X 151.74 X 151.15	22645	**8.900**	540.8	23.9	23.0
2	DRAIN CONCRETE	M20	09/11/2018	07/12/2018	149.18 X 149.95 X 149.47	22369	**8.173**	493.6	22.1	
3	DRAIN CONCRETE	M20	09/11/2018	07/12/2018	150.61 X 150.57 X 150.31	22678	**8.511**	525.3	23.2	

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-05-26** **Date: 16/11/2018**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura

Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-11-2018

Sample ID No : 2018-12-05-26 /05

Customer ID : DRAIN CONCRETE

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	DRAIN CONCRETE	M20	09/11/2018	16/11/2018	151.63 X 151.61 X 150.43	22989	**8.620**	430.1	18.7	18.3
2	DRAIN CONCRETE	M20	09/11/2018	16/11/2018	151.25 X 149.54 X 149.68	22618	**9.058**	408.7	18.1	
3	DRAIN CONCRETE	M20	09/11/2018	16/11/2018	151.34 X 149.45 X 151.25	22618	**9.041**	408.5	18.1	

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

AE(KA)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-05-26** **Date: 07/12/2018**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura

Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-11-2018

Sample ID No : 2018-12-05-26 /06

Customer ID : DRAIN CONCRETE

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	DRAIN CONCRETE	M20	09/11/2018	07/12/2018	150.02 X 149.09 X 150.16	22366	**8.108**	520.1	23.3	23.1
2	DRAIN CONCRETE	M20	09/11/2018	07/12/2018	151.58 X 151.00 X 150.64	22889	**9.078**	519.1	22.7	
3	DRAIN CONCRETE	M20	09/11/2018	07/12/2018	149.55 X 150.85 X 151.34	22559	**8.749**	528.7	23.4	

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-05-26** **Date: 19/11/2018**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura

Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-11-2018

Sample ID No : 2018-12-05-26 /01

Customer ID : DRAIN CONCRETE

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	DRAIN CONCRETE	M20	12/11/2018	19/11/2018	151.97 X 151.60 X 149.89	23038	**8.336**	423.2	18.4	18.5
2	DRAIN CONCRETE	M20	12/11/2018	19/11/2018	151.06 X 150.41 X 151.16	22721	**8.211**	422.1	18.6	
3	DRAIN CONCRETE	M20	12/11/2018	19/11/2018	151.54 X 149.86 X 149.16	22710	**8.950**	423.1	18.6	

Note:

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Applly. N.D
AE(L7)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P,
Bangalore

CIVIL PRO BANGALORE Sig..... Date.....

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-05-26** **Date: 10/12/2018**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura

Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-11-2018

Sample ID No : 2018-12-05-26 /02

Customer ID : DRAIN CONCRETE

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	DRAIN CONCRETE	M20	12/11/2018	10/12/2018	151.66 X 149.41 X 149.99	22659	**8.146**	533.3	23.5	23.1
2	DRAIN CONCRETE	M20	12/11/2018	10/12/2018	151.22 X 151.11 X 149.71	22851	**8.808**	516.7	22.6	
3	DRAIN CONCRETE	M20	12/11/2018	10/12/2018	149.99 X 150.03 X 151.76	22503	**8.617**	518.0	23.0	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

AE(Civil)

Assistant Executive Engineer,
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro
Sig.....
Date.....
BANGALORE

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-05-26** **Date: 20/11/2018**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

Project Name : Construction Of RCC Drain To Road Opposite To Elumandamma Temple Garamatana In Ward No 07,Byatarayanapura

Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-11-2018

Sample ID No : 2018-12-05-26 /01

Customer ID : DRAIN CONCRETE

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	DRAIN CONCRETE	M20	13/11/2018	20/11/2018	149.61 X 150.50 X 150.56	22516	**8.651**	416.2	18.5	18.5
2	DRAIN CONCRETE	M20	13/11/2018	20/11/2018	149.86 X 150.04 X 150.05	22485	**8.142**	417.1	18.6	
3	DRAIN CONCRETE	M20	13/11/2018	20/11/2018	151.55 X 151.34 X 149.16	22936	**8.677**	421.8	18.4	

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL PRO Sig..... Date..... BANGALORE

AE(Ist) N.D

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-05-26** **Date: 11/12/2018**

Customer : Assistant Executive Engineer,Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore

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Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-11-2018

Sample ID No : 2018-12-05-26 /02

Customer ID : DRAIN CONCRETE

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	DRAIN CONCRETE	M20	13/11/2018	11/12/2018	149.40 X 151.65 X 150.82	22658	**8.474**	524.6	23.2	22.9
2	DRAIN CONCRETE	M20	13/11/2018	11/12/2018	149.80 X 149.38 X 151.07	22376	**8.203**	495.4	22.1	
3	DRAIN CONCRETE	M20	13/11/2018	11/12/2018	151.87 X 150.42 X 151.04	22845	**8.402**	532.2	23.3	

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-05-26** **Date: 20/11/2018**

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Address : Byatarayanapura Sub Division, BBMP, Bangalore

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Agency : Sri. M N Ramaiah #28, 6th Main Road,BSK 3rd Stage,Hosakarehalli Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/156/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-11-2018

Sample ID No : 2018-12-05-26 /01

Customer ID : DRAIN CONCRETE

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	DRAIN CONCRETE	M20	13/11/2018	20/11/2018	149.02 X 149.07 X 150.23	22214	**8.132**	406.4	18.3	18.4
2	DRAIN CONCRETE	M20	13/11/2018	20/11/2018	151.81 X 151.50 X 149.87	23000	**8.342**	414.4	18.0	
3	DRAIN CONCRETE	M20	13/11/2018	20/11/2018	149.31 X 149.08 X 150.17	22260	**8.854**	419.9	18.9	

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL PRO Sig..... Date..... BANGALORE

Assistant Executive Engineer,
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Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	DRAIN CONCRETE	M20	13/11/2018	11/12/2018	151.60 X 150.04 X 151.91	22746	**8.157**	537.7	23.6	23.4
2	DRAIN CONCRETE	M20	13/11/2018	11/12/2018	149.05 X 151.90 X 149.83	22640	**8.454**	519.4	22.9	
3	DRAIN CONCRETE	M20	13/11/2018	11/12/2018	151.79 X 151.54 X 151.88	23002	**8.806**	546.5	23.8	

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Asstt.E.E.N.D
AE(Ret)

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CIVIL Pro Sig..... Date..... BANGALORE

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Technical Manager

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